

PROJECT SPECIFICATIONS

The Contractor shall comply with the *Contract Terms and Conditions* provided with the Bid Documents including but not limited to the following:

INSURANCE REQUIREMENTS – The Contractor is required to have in place during the term of the Contract and any renewals or extensions thereof, **Worker’s Compensation Insurance** and **Public Liability and Property Damage Insurance** issued by companies acceptable to the Commonwealth and authorized to conduct such business under the laws of the Commonwealth of Pennsylvania. Insurance and coverage requirements shall be provided in accordance with the *Contract Terms and Conditions*.

Insurance coverage shall also include:

Fire Insurance. The Contractor shall furnish and pay for insurance on all work included in the contract, in the total amount of the contract price, against loss or damage by fire and lightning and the extended coverage, in the names of the Pennsylvania Game Commission and the Contractor as their respective interests may appear, before starting work. Duplicate certificates of insurance for the Installation Floater covering this project will be acceptable.

Special Hazard. Special hazards, if there is a possibility of such hazard existing in the work contemplated, this shall be covered by separate insurance or by rider(s) to other required policy(s). Possible hazards, such as blasting, explosion, and fire on insurable items shall be so covered.

Policy or Policies in duplicate to accomplish insurance as above described, shall be written on either a Builder’s Risk Form or Alterations and Additions Form or Installation Floater Form, whichever, is applicable, and shall be filed, upon request, with the Pennsylvania Game Commission before starting the work. Duplicate certificates of insurance for the Installation Floater covering this project will be acceptable.

The Commonwealth of Pennsylvania **AND** the Pennsylvania Game Commission shall be listed as an “Additional Insured” on all policies.

COMPLIANCE WITH LAW – The Contractor shall comply with all applicable federal and state laws and regulations and local ordinances in the performance of the Contract.

WORKMANSHIP - All work shall be performed in a Workmanlike manner and all materials and labor shall be in strict and entire conformity with the Drawings and Specifications.

INSPECTION AND CHANGES - All work is subject to inspection and acceptance by the Pennsylvania Game Commission. Any work rejected as defective or unsuitable shall be removed and replaced with suitable work and materials at the sole cost of the Contractor to the satisfaction of the Game Commission.

Changes shall be in accordance with the *Contract Terms and Conditions*.

TEMPORARY SERVICES AND JOB CONDITIONS - The Contractor shall be responsible for providing temporary facilities necessary to execute and protect his work. The Contractor shall accept all conditions as found by him upon examination of the site. The Contractor shall cooperate in the arrangements of his work as necessary to least affect the administration or operations of present buildings and shall keep the site clean at all times. If such modifications materially increase the unit cost of work, the increased expense will be paid by the Commission following execution of a Change Order in a dollar amount determined by the Commission, in its sole discretion, to be fair and reasonable. If such modifications diminish the unit cost of the work, the amount of said diminution may be retained or withheld by the Commission. No consequent loss of anticipated profit on work not executed will be paid to the Contractor.

PREVAILING WAGE – Prevailing minimum wages apply to this project. See *Contract Terms and Conditions* and attached Prevailing Wage Determination.

The Contractor and each Subcontractor shall file a statement each week and a final statement at the conclusion of the work on the contract with the contracting agency, under oath, and in form satisfactory to the Secretary, certifying that workmen have been paid wages in strict conformity with the provisions of the contract as prescribed by this section or if wages remain unpaid to set forth the amount of wages due and owing to each workman respectively. The PA Labor and Industry “Weekly Payroll Certification for Public Works Projects” form shall be used. The initial and final Payroll Certifications shall be notarized.

PAYMENT TERMS - A schedule of values is provided with the bid. Payment will be made on a monthly basis upon satisfactory completion of items listed on the Schedule of Values and in accordance with the *Contract Terms and Conditions*.

All payments due to the Contractor shall be processed after all work has been inspected and approved by an agent of the Pennsylvania Game Commission. Payment will not be made for work that is not progressing satisfactorily or for unsuitable or defective work.

Payments may be withheld for failure to provide required documentation for the project including but not limited to required submittals / shop drawings and weekly submission of Certified Payrolls.

CONTRACT TERM - The Contract shall commence upon delivery of purchase order to Contractor and shall terminate on **June 26, 2020**. All work must be completed and accepted by that date.

EXCISE TAXES, PENNSYLVANIA SALES TAX - The Commonwealth is exempt from all Excise Taxes. See *Contract Terms and Conditions*.

OFFSET PROVISION - The Contractor agrees that the Commonwealth may set off the amount of any state liability or other debt of the Contractor or its subsidiaries that is owed to the Commonwealth and not being contested on appeal against any payments due the Contractor under this or any other contract with the Commonwealth.

PERFORMANCE SECURITY / CONTRACT BONDS – Within 10 days after award of the purchase order, the Bidder to whom the Contract is awarded, shall provide **Contract Performance Security** in a form acceptable to the Commonwealth and, if required, a **Payment Bond** based on the amount of the Contract in accordance with the *Contract Terms and Conditions*.

GUARANTY / WARRANTY – See *Contract Terms and Conditions* – all items are warranted for a period of one year following delivery by the Contractor and acceptance by the Commonwealth.

Contractor shall comply with the conditions listed below in accordance with the *Contract Terms and Conditions*:

1. **Steel Products Procurement Act**
2. **Prohibition Against the Use of Certain Steel and Aluminum Products (Trade Practices Act)**
3. **Reciprocal Limitations Act** - The form GSPUR89 (Reciprocal Limitations Act Requirements) is attached. The Contractor shall complete the applicable portions of pages 3 and 4 of the form and submit the completed pages within two days after the bid opening.

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project Name:	SGL #234 Equipment Storage Building
Awarding Agency:	Bobbi Mercer
Contract Award Date:	3/17/2020
Serial Number:	20-00204
Project Classification:	Building/Highway
Determination Date:	1/8/2020
Assigned Field Office:	Philadelphia
Field Office Phone Number:	(215)560-1858
Toll Free Phone Number:	
Project County:	Montgomery County

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 20-00204 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Asbestos & Insulation Workers	5/29/2017		\$47.30	\$34.85	\$82.15
Asbestos & Insulation Workers	5/1/2018		\$49.30	\$35.85	\$85.15
Asbestos & Insulation Workers	5/1/2019		\$51.20	\$36.95	\$88.15
Boilermaker (Commercial, Institutional, and Minor Repair Work)	3/1/2017		\$28.52	\$18.22	\$46.74
Boilermaker (Commercial, Institutional, and Minor Repair Work)	3/1/2018		\$29.52	\$18.22	\$47.74
Boilermaker (Commercial, Institutional, and Minor Repair Work)	1/1/2019		\$29.26	\$18.48	\$47.74
Boilermakers	1/1/2018		\$46.26	\$33.36	\$79.62
Boilermakers	3/1/2018		\$45.89	\$33.73	\$79.62
Boilermakers	1/1/2019		\$45.51	\$34.11	\$79.62
Boilermakers	8/1/2019		\$47.21	\$34.11	\$81.32
Bricklayer	5/1/2017		\$40.98	\$26.78	\$67.76
Bricklayer	5/1/2018		\$43.73	\$26.78	\$70.51
Bricklayer	5/1/2019		\$46.48	\$26.78	\$73.26
Carpenter - Chief of Party (Surveying & Layout)	5/1/2017		\$45.25	\$27.59	\$72.84
Carpenter - Chief of Party (Surveying & Layout)	5/1/2018	4/30/2019	\$45.83	\$27.59	\$73.42
Carpenter - Chief of Party (Surveying & Layout)	5/1/2019	4/30/2020	\$46.54	\$27.59	\$74.13
Carpenter - Chief of Party (Surveying & Layout)	5/1/2020		\$47.73	\$27.59	\$75.32
Carpenter - Instrument Person (Surveying & Layout)	5/1/2017		\$39.35	\$27.59	\$66.94
Carpenter - Instrument Person (Surveying & Layout)	5/1/2018	4/30/2019	\$39.85	\$27.59	\$67.44
Carpenter - Instrument Person (Surveying & Layout)	5/1/2019	4/30/2020	\$40.47	\$27.59	\$68.06
Carpenter - Instrument Person (Surveying & Layout)	5/1/2020		\$41.50	\$27.59	\$69.09
Carpenter - Rodman (Surveying & Layout)	5/1/2017		\$19.68	\$19.64	\$39.32
Carpenter - Rodman (Surveying & Layout)	5/1/2018	4/30/2019	\$19.93	\$19.49	\$39.42
Carpenter - Rodman (Surveying & Layout)	5/1/2019	4/30/2020	\$20.24	\$19.69	\$39.93
Carpenter - Rodman (Surveying & Layout)	5/1/2020		\$20.75	\$19.49	\$40.24
Carpenters	5/1/2017		\$39.35	\$27.59	\$66.94
Carpenters	5/1/2018	4/30/2019	\$39.85	\$27.59	\$67.44
Carpenters	5/1/2019	4/30/2020	\$40.87	\$27.59	\$68.46
Carpenters	5/1/2020		\$41.90	\$27.59	\$69.49
Cement Masons	5/1/2017		\$36.45	\$31.76	\$68.21
Cement Masons	5/1/2018		\$37.50	\$32.26	\$69.76
Cement Masons	5/1/2019		\$38.50	\$32.81	\$71.31
DockBuilder/Pile Drivers (Building, Heavy & Highway)	5/1/2018		\$43.45	\$34.47	\$77.92
Dockbuilder/Piledriver (Building, Heavy, Highway)	11/1/2017		\$43.45	\$33.22	\$76.67
Dockbuilder/Piledriver (Building, Heavy, Highway)	5/1/2018		\$44.70	\$33.22	\$77.92
Drywall Finisher	5/1/2017		\$37.11	\$26.75	\$63.86
Drywall Finisher	5/1/2018	4/30/2019	\$39.27	\$27.49	\$66.76
Drywall Finisher	5/1/2019		\$37.75	\$28.11	\$65.86
Electricians	4/30/2017		\$45.16	\$35.25	\$80.41
Electricians	4/29/2018		\$46.89	\$36.52	\$83.41
Electricians	5/1/2019		\$48.26	\$38.15	\$86.41
Elevator Constructor	1/1/2018		\$55.76	\$33.05	\$88.81

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 20-00204 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Floor Coverer	5/1/2019		\$44.37	\$28.44	\$72.81
Floor Coverer	5/1/2020		\$46.01	\$28.44	\$74.45
Floor Layer	5/1/2017		\$42.51	\$27.91	\$70.42
Floor Layer	5/1/2018		\$43.11	\$28.09	\$71.20
Glazier	5/1/2017		\$41.30	\$31.80	\$73.10
Glazier	5/1/2018	4/30/2019	\$43.32	\$32.33	\$75.65
Glazier	5/1/2019		\$43.87	\$33.38	\$77.25
Iron Workers - Reinforcing Steel Mesh - Rebar	7/1/2017		\$42.56	\$29.30	\$71.86
Iron Workers - Reinforcing Steel Mesh - Rebar	7/1/2018		\$51.46	\$30.60	\$82.06
Iron Workers - Reinforcing Steel Mesh - Rebar	7/1/2019		\$52.66	\$30.85	\$83.51
Iron Workers (Riggers)	7/1/2017		\$39.83	\$27.92	\$67.75
Iron Workers	7/1/2017		\$47.30	\$32.91	\$80.21
Iron Workers	7/1/2018		\$42.88	\$30.60	\$73.48
Iron Workers	7/1/2019		\$49.30	\$34.41	\$83.71
Iron Workers	1/1/2020		\$49.80	\$34.41	\$84.21
Laborers (Class 01 - See notes)	5/1/2017		\$28.65	\$24.95	\$53.60
Laborers (Class 02 - See notes)	5/1/2017		\$30.85	\$25.65	\$56.50
Laborers (Class 03 - See notes)	5/1/2017		\$28.92	\$25.18	\$54.10
Laborers (Class 04 - See notes)	5/1/2017		\$28.95	\$24.95	\$53.90
Laborers (Class 05 - See notes)	5/1/2017		\$28.65	\$24.95	\$53.60
Landscape Laborer	5/1/2017		\$22.71	\$23.08	\$45.79
Marble Finisher	5/1/2017		\$35.55	\$24.17	\$59.72
Marble Finisher	5/1/2018		\$37.55	\$24.17	\$61.72
Marble Finisher	5/1/2019		\$39.75	\$24.17	\$63.92
Marble Mason	5/1/2017		\$40.36	\$26.99	\$67.35
Marble Mason	5/1/2018		\$43.11	\$26.99	\$70.10
Marble Mason	5/1/2019		\$45.86	\$26.99	\$72.85
Millwright	7/1/2017		\$41.35	\$32.24	\$73.59
Millwright	5/1/2018		\$43.33	\$32.96	\$76.29
Millwright	5/1/2019		\$45.50	\$33.29	\$78.79
Operators (Building, Class 01 - See Notes)	5/1/2017		\$44.87	\$28.14	\$73.01
Operators (Building, Class 01 - See Notes)	5/1/2018		\$46.41	\$28.60	\$75.01
Operators (Building, Class 01 - See Notes)	5/1/2019		\$46.41	\$30.60	\$77.01
Operators (Building, Class 01 - See Notes)	5/1/2020		\$47.96	\$31.05	\$79.01
Operators (Building, Class 01 - See Notes)	5/1/2021		\$49.50	\$31.51	\$81.01
Operators (Building, Class 01A - See Notes)	5/1/2017		\$47.86	\$29.03	\$76.89
Operators (Building, Class 01A - See Notes)	5/1/2018		\$49.41	\$29.49	\$78.90
Operators (Building, Class 01A - See Notes)	5/1/2019		\$49.41	\$31.49	\$80.90
Operators (Building, Class 01A - See Notes)	5/1/2020		\$50.96	\$31.94	\$82.90
Operators (Building, Class 01A - See Notes)	5/1/2021		\$52.51	\$32.39	\$84.90
Operators (Building, Class 02 - See Notes)	5/1/2017		\$44.62	\$28.07	\$72.69
Operators (Building, Class 02 - See Notes)	5/1/2018		\$46.16	\$28.53	\$74.69
Operators (Building, Class 02 - See Notes)	5/1/2019		\$46.16	\$30.53	\$76.69
Operators (Building, Class 02 - See Notes)	5/1/2020		\$47.71	\$30.98	\$78.69

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 20-00204 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Building, Class 02 - See Notes)	5/1/2021		\$49.25	\$31.44	\$80.69
Operators (Building, Class 02A - See Notes)	5/1/2017		\$47.61	\$28.97	\$76.58
Operators (Building, Class 02A - See Notes)	5/1/2018		\$49.16	\$29.42	\$78.58
Operators (Building, Class 02A - See Notes)	5/1/2019		\$49.17	\$31.41	\$80.58
Operators (Building, Class 02A - See Notes)	5/1/2020		\$50.71	\$31.87	\$82.58
Operators (Building, Class 02A - See Notes)	5/1/2021		\$52.26	\$32.32	\$84.58
Operators (Building, Class 03 - See Notes)	5/1/2017		\$40.53	\$26.87	\$67.40
Operators (Building, Class 03 - See Notes)	5/1/2018		\$42.07	\$27.33	\$69.40
Operators (Building, Class 03 - See Notes)	5/1/2019		\$42.08	\$29.32	\$71.40
Operators (Building, Class 03 - See Notes)	5/1/2020		\$43.62	\$29.78	\$73.40
Operators (Building, Class 03 - See Notes)	5/1/2021		\$45.16	\$30.24	\$75.40
Operators (Building, Class 04 - See Notes)	5/1/2017		\$40.24	\$26.78	\$67.02
Operators (Building, Class 04 - See Notes)	5/1/2018		\$41.78	\$27.22	\$69.00
Operators (Building, Class 04 - See Notes)	5/1/2019		\$41.78	\$29.23	\$71.01
Operators (Building, Class 04 - See Notes)	5/1/2020		\$43.32	\$29.69	\$73.01
Operators (Building, Class 04 - See Notes)	5/1/2021		\$44.87	\$30.14	\$75.01
Operators (Building, Class 05 - See Notes)	5/1/2017		\$38.51	\$26.27	\$64.78
Operators (Building, Class 05 - See Notes)	5/1/2018		\$40.05	\$26.73	\$66.78
Operators (Building, Class 05 - See Notes)	5/1/2019		\$40.06	\$28.72	\$68.78
Operators (Building, Class 05 - See Notes)	5/1/2020		\$41.60	\$29.18	\$70.78
Operators (Building, Class 05 - See Notes)	5/1/2021		\$43.14	\$29.64	\$72.78
Operators (Building, Class 06 - See Notes)	5/1/2017		\$37.52	\$25.98	\$63.50
Operators (Building, Class 06 - See Notes)	5/1/2018		\$39.07	\$26.43	\$65.50
Operators (Building, Class 06 - See Notes)	5/1/2019		\$39.07	\$28.43	\$67.50
Operators (Building, Class 06 - See Notes)	5/1/2020		\$40.61	\$28.89	\$69.50
Operators (Building, Class 06 - See Notes)	5/1/2021		\$42.16	\$29.34	\$71.50
Operators (Building, Class 07A- See Notes)	5/1/2017		\$54.14	\$32.47	\$86.61
Operators (Building, Class 07A- See Notes)	5/1/2018		\$55.99	\$33.02	\$89.01
Operators (Building, Class 07A- See Notes)	5/1/2019		\$56.30	\$35.11	\$91.41
Operators (Building, Class 07A- See Notes)	5/1/2020		\$58.16	\$35.65	\$93.81
Operators (Building, Class 07A- See Notes)	5/1/2021		\$60.00	\$36.21	\$96.21
Operators (Building, Class 07B- See Notes)	5/1/2017		\$53.84	\$32.40	\$86.24
Operators (Building, Class 07B- See Notes)	5/1/2018		\$55.70	\$32.92	\$88.62
Operators (Building, Class 07B- See Notes)	5/1/2019		\$56.00	\$35.03	\$91.03
Operators (Building, Class 07B- See Notes)	5/1/2020		\$57.86	\$35.57	\$93.43
Operators (Building, Class 07B- See Notes)	5/1/2021		\$59.72	\$36.11	\$95.83
Painters Class 1 (see notes)	5/1/2017		\$37.82	\$26.46	\$64.28
Painters Class 1 (see notes)	5/1/2018	4/30/2019	\$38.64	\$27.64	\$66.28
Painters Class 1 (see notes)	5/1/2019		\$39.04	\$28.99	\$68.03
Painters Class 2 (see notes)	2/1/2017		\$53.67	\$26.09	\$79.76
Painters Class 2 (see notes)	2/1/2018		\$54.14	\$27.27	\$81.41
Painters Class 2 (see notes)	2/1/2019		\$55.52	\$28.39	\$83.91
Painters Class 3 (see notes)	5/1/2017		\$38.20	\$26.46	\$64.66
Painters Class 3 (see notes)	5/1/2019		\$39.42	\$28.99	\$68.41

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 20-00204 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Plasterers	5/1/2017		\$37.42	\$28.83	\$66.25
Plasterers	5/1/2018		\$37.42	\$30.04	\$67.46
Plasterers	5/1/2019		\$37.72	\$30.74	\$68.46
plumber	5/1/2018	4/30/2019	\$53.45	\$33.54	\$86.99
plumber	5/1/2019		\$55.45	\$34.54	\$89.99
Plumbers	5/1/2017		\$51.42	\$32.57	\$83.99
Pointers, Caulkers, Cleaners	5/1/2017		\$42.26	\$25.69	\$67.95
Pointers, Caulkers, Cleaners	5/1/2018		\$45.01	\$25.69	\$70.70
Pointers, Caulkers, Cleaners	5/1/2019		\$47.76	\$25.69	\$73.45
Roofers (Composition)	5/1/2017		\$36.15	\$30.22	\$66.37
Roofers (Composition)	5/1/2018		\$37.15	\$31.27	\$68.42
Roofers (Composition)	5/1/2019		\$38.35	\$31.80	\$70.15
Roofers (Shingle)	5/1/2016		\$25.70	\$19.17	\$44.87
Roofers (Shingle)	5/1/2019		\$28.50	\$20.87	\$49.37
Roofers (Slate & Tile)	5/1/2016		\$28.70	\$19.17	\$47.87
Roofers (Slate & Tile)	5/1/2018		\$30.50	\$20.37	\$50.87
Roofers (Slate & Tile)	5/1/2019		\$31.50	\$20.87	\$52.37
Sheet Metal Workers	5/1/2017		\$46.42	\$39.51	\$85.93
Sheet Metal Workers	5/1/2018		\$47.58	\$41.60	\$89.18
Sheet Metal Workers	5/1/2019		\$49.79	\$42.89	\$92.68
Sprinklerfitters	4/1/2017		\$37.40	\$21.74	\$59.14
Sprinklerfitters	4/1/2018		\$38.80	\$22.74	\$61.54
Sprinklerfitters	5/1/2019		\$57.20	\$28.32	\$85.52
Steamfitters	5/1/2017		\$54.64	\$32.53	\$87.17
Steamfitters	5/1/2018		\$56.37	\$34.39	\$90.76
Steamfitters	5/1/2019		\$58.17	\$35.99	\$94.16
Stone Masons	5/1/2017		\$40.36	\$26.99	\$67.35
Stone Masons	5/1/2018		\$43.11	\$26.99	\$70.10
Stone Masons	5/1/2019		\$45.86	\$26.99	\$72.85
Terrazzo Finisher	5/1/2017		\$39.06	\$22.73	\$61.79
Terrazzo Finisher	5/1/2018		\$41.31	\$22.73	\$64.04
Terrazzo Finisher	5/1/2019		\$43.61	\$22.73	\$66.34
Terrazzo Grinder	5/1/2017		\$39.33	\$22.73	\$62.06
Terrazzo Grinder	5/1/2018		\$41.58	\$22.73	\$64.31
Terrazzo Grinder	5/1/2019		\$43.88	\$22.73	\$66.61
Terrazzo Mechanics	5/1/2017		\$43.71	\$24.81	\$68.52
Terrazzo Mechanics	5/1/2018		\$46.46	\$24.81	\$71.27
Terrazzo Mechanics	5/1/2019		\$49.21	\$24.81	\$74.02
Tile Finisher	5/1/2017		\$35.55	\$24.17	\$59.72
Tile Finisher	5/1/2018		\$37.55	\$24.17	\$61.72
Tile Finisher	5/1/2019		\$39.75	\$24.17	\$63.92
Tile Setter	5/1/2017		\$43.71	\$24.81	\$68.52
Tile Setter	5/1/2018		\$46.46	\$24.81	\$71.27
Tile Setter	5/1/2019		\$49.21	\$24.81	\$74.02

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 20-00204 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Truckdriver class 1(see notes)	5/1/2017		\$30.46	\$17.96	\$48.42
Truckdriver class 1(see notes)	5/1/2018		\$31.93	\$17.96	\$49.89
Truckdriver class 1(see notes)	5/1/2019		\$32.21	\$19.19	\$51.40
Truckdriver class 1(see notes)	5/1/2020		\$34.93	\$17.96	\$52.89
Truckdriver class 1(see notes)	5/1/2021		\$36.48	\$17.96	\$54.44
Truckdriver class 2 (see notes)	5/1/2017		\$30.56	\$17.96	\$48.52
Truckdriver class 2 (see notes)	5/1/2018		\$32.03	\$17.96	\$49.99
Truckdriver class 2 (see notes)	5/1/2019		\$32.31	\$19.19	\$51.50
Truckdriver class 2 (see notes)	5/1/2020		\$35.03	\$17.96	\$52.99
Truckdriver class 2 (see notes)	5/1/2021		\$36.58	\$17.96	\$54.54
Truckdriver class 3 (see notes)	5/1/2017		\$30.56	\$17.96	\$48.52
Truckdriver class 3 (see notes)	5/1/2018		\$32.28	\$17.96	\$50.24
Truckdriver class 3 (see notes)	5/1/2019		\$32.56	\$19.19	\$51.75
Truckdriver class 3 (see notes)	5/1/2020		\$35.28	\$17.96	\$53.24
Truckdriver class 3 (see notes)	5/1/2021		\$36.83	\$17.96	\$54.79
Window Film / Tint Installer	6/1/2019		\$24.52	\$12.08	\$36.60

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 20-00204 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Carpenter - Chief of Party (Surveying & Layout)	5/1/2017		\$51.42	\$27.39	\$78.81
Carpenter - Chief of Party (Surveying & Layout)	5/1/2018	4/30/2019	\$53.20	\$27.69	\$80.89
Carpenter - Chief of Party (Surveying & Layout)	5/1/2019	4/30/2020	\$54.98	\$28.04	\$83.02
Carpenter - Chief of Party (Surveying & Layout)	5/1/2020	4/30/2021	\$57.22	\$28.04	\$85.26
Carpenter - Chief of Party (Surveying & Layout)	5/1/2021		\$59.93	\$27.69	\$87.62
Carpenter - Instrument Person (Surveying & Layout)	5/1/2017		\$44.71	\$27.39	\$72.10
Carpenter - Instrument Person (Surveying & Layout)	5/1/2018	4/30/2019	\$46.26	\$27.69	\$73.95
Carpenter - Instrument Person (Surveying & Layout)	5/1/2019	4/30/2020	\$47.81	\$28.04	\$75.85
Carpenter - Instrument Person (Surveying & Layout)	5/1/2020	4/30/2021	\$49.76	\$28.04	\$77.80
Carpenter - Instrument Person (Surveying & Layout)	5/1/2021		\$52.11	\$27.69	\$79.80
Carpenter - Rodman (Surveying & Layout)	5/1/2017		\$35.77	\$21.19	\$56.96
Carpenter - Rodman (Surveying & Layout)	5/1/2018	4/30/2019	\$37.01	\$21.34	\$58.35
Carpenter - Rodman (Surveying & Layout)	5/1/2019	4/30/2020	\$38.25	\$21.34	\$59.59
Carpenter - Rodman (Surveying & Layout)	5/1/2020	4/30/2021	\$39.81	\$21.34	\$61.15
Carpenter - Rodman (Surveying & Layout)	5/1/2021		\$41.69	\$21.34	\$63.03
Carpenter	5/1/2018	4/30/2019	\$46.26	\$27.69	\$73.95
Carpenter	5/1/2019	4/30/2020	\$47.81	\$28.04	\$75.85
Carpenter	5/1/2020	4/30/2021	\$49.76	\$28.04	\$77.80
Carpenter	5/1/2021		\$51.76	\$28.04	\$79.80
Carpenters	5/1/2017		\$44.71	\$27.39	\$72.10
Carpenters	5/1/2018		\$46.56	\$27.39	\$73.95
Carpenters	5/1/2019		\$48.46	\$27.39	\$75.85
Carpenters	5/1/2020		\$50.41	\$27.39	\$77.80
Carpenters	5/1/2021		\$52.41	\$27.39	\$79.80
Cement Masons	5/1/2017		\$34.45	\$31.51	\$65.96
Cement Masons	5/1/2018		\$35.65	\$32.01	\$67.66
Cement Masons	5/1/2019		\$37.90	\$31.51	\$69.41
Cement Masons	5/1/2020		\$39.70	\$31.51	\$71.21
Cement Masons	5/1/2021		\$41.55	\$31.51	\$73.06
Electric Lineman	5/29/2017		\$52.60	\$26.37	\$78.97
Electric Lineman	5/28/2018		\$53.64	\$27.45	\$81.09
Electric Lineman	5/27/2019		\$54.66	\$28.56	\$83.22
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	1/1/2017		\$44.20	\$31.26	\$75.46
Iron Workers	7/1/2017		\$47.30	\$32.91	\$80.21
Iron Workers	7/1/2019		\$49.30	\$34.41	\$83.71
Iron Workers	1/1/2020		\$49.80	\$34.41	\$84.21
Laborers (Class 01 - See notes)	5/1/2017		\$29.75	\$25.65	\$55.40
Laborers (Class 01 - See notes)	5/1/2018		\$31.25	\$25.65	\$56.90
Laborers (Class 01 - See notes)	5/1/2019		\$32.80	\$25.65	\$58.45
Laborers (Class 01 - See notes)	5/1/2020		\$34.45	\$25.65	\$60.10
Laborers (Class 01 - See notes)	5/1/2021		\$36.20	\$25.65	\$61.85
Laborers (Class 02 - See notes)	5/1/2017		\$29.95	\$25.65	\$55.60
Laborers (Class 02 - See notes)	5/1/2018		\$31.45	\$25.65	\$57.10
Laborers (Class 02 - See notes)	5/1/2019		\$33.00	\$25.65	\$58.65

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 20-00204 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Laborers (Class 02 - See notes)	5/1/2020		\$34.65	\$25.65	\$60.30
Laborers (Class 02 - See notes)	5/1/2021		\$36.40	\$25.65	\$62.05
Laborers (Class 03 - See notes)	5/1/2017		\$29.95	\$25.65	\$55.60
Laborers (Class 03 - See notes)	5/1/2018		\$31.45	\$25.65	\$57.10
Laborers (Class 03 - See notes)	5/1/2019		\$33.00	\$25.65	\$58.65
Laborers (Class 03 - See notes)	5/1/2020		\$34.65	\$25.65	\$60.30
Laborers (Class 03 - See notes)	5/1/2021		\$36.40	\$25.65	\$62.05
Laborers (Class 04 - See notes)	5/1/2017		\$24.55	\$25.65	\$50.20
Laborers (Class 04 - See notes)	5/1/2018		\$26.05	\$25.65	\$51.70
Laborers (Class 04 - See notes)	5/1/2019		\$27.60	\$25.65	\$53.25
Laborers (Class 04 - See notes)	5/1/2020		\$29.25	\$25.65	\$54.90
Laborers (Class 04 - See notes)	5/1/2021		\$31.00	\$25.65	\$56.65
Laborers (Class 05 - See notes)	5/1/2017		\$30.60	\$25.65	\$56.25
Laborers (Class 05 - See notes)	5/1/2018		\$32.10	\$25.65	\$57.75
Laborers (Class 05 - See notes)	5/1/2019		\$33.65	\$25.65	\$59.30
Laborers (Class 05 - See notes)	5/1/2020		\$35.30	\$25.65	\$60.95
Laborers (Class 05 - See notes)	5/1/2021		\$37.05	\$25.65	\$62.70
Laborers (Class 06 - See notes)	5/1/2017		\$30.65	\$25.65	\$56.30
Laborers (Class 06 - See notes)	5/1/2018		\$32.15	\$25.65	\$57.80
Laborers (Class 06 - See notes)	5/1/2019		\$33.70	\$25.65	\$59.35
Laborers (Class 06 - See notes)	5/1/2020		\$35.35	\$25.65	\$61.00
Laborers (Class 06 - See notes)	5/1/2021		\$37.10	\$25.65	\$62.75
Laborers (Class 07 - See notes)	5/1/2017		\$30.50	\$25.65	\$56.15
Laborers (Class 07 - See notes)	5/1/2018		\$32.00	\$25.65	\$57.65
Laborers (Class 07 - See notes)	5/1/2019		\$33.55	\$25.65	\$59.20
Laborers (Class 07 - See notes)	5/1/2020		\$35.20	\$25.65	\$60.85
Laborers (Class 07 - See notes)	5/1/2021		\$36.95	\$25.65	\$62.60
Laborers (Class 08 - See notes)	5/1/2017		\$30.25	\$25.65	\$55.90
Laborers (Class 08 - See notes)	5/1/2018		\$31.75	\$25.65	\$57.40
Laborers (Class 08 - See notes)	5/1/2019		\$33.30	\$25.65	\$58.95
Laborers (Class 08 - See notes)	5/1/2020		\$34.95	\$25.65	\$60.60
Laborers (Class 08 - See notes)	5/1/2021		\$36.70	\$25.65	\$62.35
Laborers (Class 09 - See notes)	5/1/2017		\$30.10	\$25.65	\$55.75
Laborers (Class 09 - See notes)	5/1/2018		\$31.60	\$25.65	\$57.25
Laborers (Class 09 - See notes)	5/1/2019		\$33.15	\$25.65	\$58.80
Laborers (Class 09 - See notes)	5/1/2020		\$34.80	\$25.65	\$60.45
Laborers (Class 09 - See notes)	5/1/2021		\$36.55	\$25.65	\$62.20
Laborers (Class 10- See notes)	5/1/2017		\$30.25	\$25.65	\$55.90
Laborers (Class 10- See notes)	5/1/2018		\$33.30	\$25.65	\$58.95
Laborers (Class 10- See notes)	5/1/2018		\$31.75	\$25.65	\$57.40
Laborers (Class 10- See notes)	5/1/2020		\$34.95	\$25.65	\$60.60
Laborers (Class 10- See notes)	5/1/2021		\$36.70	\$25.65	\$62.35
Laborers (Class 11 -See Notes)	5/1/2017		\$30.15	\$25.65	\$55.80
Laborers (Class 11 -See Notes)	5/1/2018		\$31.55	\$25.65	\$57.20

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 20-00204 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Laborers (Class 11 -See Notes)	5/1/2019		\$33.10	\$25.65	\$58.75
Laborers (Class 11 -See Notes)	5/1/2020		\$34.75	\$25.65	\$60.40
Laborers (Class 11 -See Notes)	5/1/2021		\$36.50	\$25.65	\$62.15
Laborers (Class 12 -See Notes)	5/1/2017		\$31.85	\$25.65	\$57.50
Laborers (Class 12 -See Notes)	5/1/2018		\$32.45	\$25.65	\$58.10
Laborers (Class 12 -See Notes)	5/1/2019		\$34.00	\$25.65	\$59.65
Laborers (Class 12 -See Notes)	5/1/2020		\$35.65	\$25.65	\$61.30
Laborers (Class 12 -See Notes)	5/1/2021		\$37.40	\$25.65	\$63.05
Laborers (Class 13 -See Notes)	5/1/2017		\$33.88	\$25.65	\$59.53
Laborers (Class 13 -See Notes)	5/1/2018		\$35.38	\$25.65	\$61.03
Laborers (Class 13 -See Notes)	5/1/2019		\$36.93	\$25.65	\$62.58
Laborers (Class 13 -See Notes)	5/1/2020		\$38.58	\$25.65	\$64.23
Laborers (Class 13 -See Notes)	5/1/2021		\$40.33	\$25.65	\$65.98
Laborers (Class 14 -See Notes)	5/1/2017		\$30.00	\$25.65	\$55.65
Laborers (Class 14 -See Notes)	5/1/2018		\$31.50	\$25.65	\$57.15
Laborers (Class 14 -See Notes)	5/1/2019		\$33.05	\$25.65	\$58.70
Laborers (Class 14 -See Notes)	5/1/2020		\$34.70	\$25.65	\$60.35
Laborers (Class 14 -See Notes)	5/1/2021		\$36.45	\$25.65	\$62.10
Laborers Utility (PGW ONLY) (Flagperson)	5/1/2017		\$23.52	\$17.58	\$41.10
Laborers Utility (PGW ONLY)	5/1/2017		\$30.55	\$17.58	\$48.13
Landscape Laborer	4/1/2016		\$21.19	\$22.65	\$43.84
Operators Class 01 - See Notes (Building, Heavy, Highway)	5/1/2017		\$44.87	\$28.14	\$73.01
Operators Class 01 - See Notes (Building, Heavy, Highway)	5/1/2018		\$46.41	\$28.60	\$75.01
Operators Class 01a - See Notes (Building, Heavy, Highway)	5/1/2017		\$47.86	\$29.03	\$76.89
Operators Class 01a - See Notes (Building, Heavy, Highway)	5/1/2018		\$49.41	\$29.49	\$78.90
Operators Class 02 - See Notes (Building, Heavy, Highway)	5/1/2017		\$44.62	\$28.07	\$72.69
Operators Class 02 - See Notes (Building, Heavy, Highway)	5/1/2018		\$46.16	\$28.53	\$74.69
Operators Class 02a - See Notes (Building, Heavy, Highway)	5/1/2017		\$47.61	\$28.97	\$76.58
Operators Class 02a - See Notes (Building, Heavy, Highway)	5/1/2018		\$49.16	\$29.42	\$78.58
Operators Class 03 - See Notes (Building, Heavy, Highway)	5/1/2017		\$40.53	\$26.87	\$67.40
Operators Class 03 - See Notes (Building, Heavy, Highway)	5/1/2018		\$42.07	\$27.33	\$69.40
Operators Class 04 - See Notes (Building, Heavy, Highway)	5/1/2017		\$40.24	\$26.78	\$67.02
Operators Class 04 - See Notes (Building, Heavy, Highway)	5/1/2018		\$41.78	\$27.22	\$69.00
Operators Class 05 - See Notes (Building, Heavy, Highway)	5/1/2017		\$38.51	\$26.27	\$64.78
Operators Class 05 - See Notes (Building, Heavy, Highway)	5/1/2018		\$40.05	\$26.73	\$66.78

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 20-00204 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators Class 06 - See Notes (Building, Heavy, Highway)	5/1/2017		\$37.52	\$25.98	\$63.50
Operators Class 06 - See Notes (Building, Heavy, Highway)	5/1/2018		\$39.07	\$26.43	\$65.50
Operators Class 07 (A) - See Notes (Building, Heavy, Highway)	5/1/2017		\$54.14	\$32.47	\$86.61
Operators Class 07 (A) - See Notes (Building, Heavy, Highway)	5/1/2018		\$55.99	\$33.02	\$89.01
Operators Class 07 (B) - See Notes (Building, Heavy, Highway)	5/1/2017		\$53.84	\$32.40	\$86.24
Operators Class 07 (B) - See Notes (Building, Heavy, Highway)	5/1/2018		\$55.70	\$32.92	\$88.62
Painters (Bridges, Stacks, Towers)	2/1/2017		\$53.67	\$26.09	\$79.76
Painters (Bridges, Stacks, Towers)	2/1/2018		\$54.14	\$27.27	\$81.41
Painters (Bridges, Stacks, Towers)	2/1/2019		\$55.52	\$28.39	\$83.91
Steamfitters (Heavy and Highway - Gas Distribution)	5/1/2017		\$51.91	\$32.53	\$84.44
Steamfitters	5/1/2018		\$56.37	\$34.39	\$90.76
Truckdriver class 1(see notes)	5/1/2017		\$30.31	\$17.96	\$48.27
Truckdriver class 1(see notes)	5/1/2018		\$31.78	\$17.96	\$49.74
Truckdriver class 1(see notes)	5/1/2019		\$32.06	\$19.19	\$51.25
Truckdriver class 1(see notes)	5/1/2020		\$34.78	\$17.96	\$52.74
Truckdriver class 1(see notes)	5/1/2021		\$36.33	\$17.96	\$54.29
Truckdriver class 2 (see notes)	5/1/2017		\$30.41	\$17.96	\$48.37
Truckdriver class 2 (see notes)	5/1/2018		\$31.88	\$17.96	\$49.84
Truckdriver class 2 (see notes)	5/1/2019		\$32.16	\$19.19	\$51.35
Truckdriver class 2 (see notes)	5/1/2020		\$34.88	\$17.96	\$52.84
Truckdriver class 2 (see notes)	5/1/2021		\$36.43	\$17.96	\$54.39
Truckdriver class 3 (see notes)	5/1/2017		\$30.66	\$17.96	\$48.62
Truckdriver class 3 (see notes)	5/1/2018		\$32.13	\$17.96	\$50.09
Truckdriver class 3 (see notes)	5/1/2019		\$32.41	\$19.19	\$51.60
Truckdriver class 3 (see notes)	5/1/2020		\$35.13	\$17.96	\$53.09
Truckdriver class 3 (see notes)	5/1/2021		\$36.68	\$17.96	\$54.64

RECIPROCAL LIMITATIONS ACT REQUIREMENTS

Please Complete Applicable Portion of Pages 3 & 4 and Return with Bid.

NOTE: These Requirements Do Not Apply To Bids Under \$10,000.00

I. REQUIREMENTS

- A.** The Reciprocal Limitations Act requires the Commonwealth to give preference to those bidders offering supplies produced, manufactured, mined or grown in Pennsylvania as against those bidders offering supplies produced, manufactured, mined or grown in any state that gives or requires a preference to supplies produced, manufactured, mined or grown in that state. The amount of the preference shall be equal to the amount of the preference applied by the other state for that particular supply.

The following is a list of states which have been found by the Department of General Services to have applied a preference for in-state supplies and the amount of the preference:

	STATE	PREFERENCE
1.	Alaska	7% (applies only to timber, lumber, and manufactured lumber products originating in the state)
2.	Arizona	5% (construction materials produced or manufactured in the state only)
3.	Hawaii	10%
4.	Illinois	10% for coal only
5.	Iowa	5% for coal only
6.	Louisiana	4% meat and meat products 4% catfish 10% milk & dairy products 10% steel rolled in Louisiana 7% all other products
7.	Montana	5% for residents * 3% for non-residents* *offering in-state goods, supplies, equipment and materials
8.	New Mexico	5%
9.	New York	3% for purchase of food only
10.	Oklahoma	5%
11.	Virginia	4% for coal only
12.	Washington	5% (fuels mined or produced in the state only)
13.	Wyoming	5%

- B.** The Reciprocal Limitations Act requires the Commonwealth to give preference to those bidders offering printing performed in Pennsylvania as against those bidders offering printing performed in any state that gives or requires a preference to printing performed in that state. The amount of the preference shall be equal to the amount of the preference applied by the other state for that particular category of printing.

The following is a list of states which have been found by the Department of General Services to have applied a preference for in-state printing and the amount of the preference:

	STATE	PREFERENCE
1.	Hawaii	15%
2.	Idaho	10%
3.	Louisiana	3%
4.	Montana	8%
5.	New Mexico	5%
6.	Wyoming	10%

- C.** The Reciprocal Limitations Act, also requires the Commonwealth to give resident bidders a preference against a nonresident bidder from any state that gives or requires a preference to bidders from that state or exclude bidders from states that exclude nonresident bidders. The amount of the preference shall be equal to the amount of the preference applied by the state of the nonresident bidder. The following is a list of the states which have been found by the Department of General Services to have applied a preference for in-state bidders and the amount of the preference:

STATE	PREFERENCE
1. Alaska	5% (supplies only)
2. Arizona	5% (construction materials from Arizona resident dealers only)
3. California	5% (for supply contracts only in excess of \$100,000.00)
4. Connecticut	10% (for supplies only)
5. Montana	3%
6. New Mexico	5% (for supplies only)
7. South Carolina	2% (under \$2,500,000.00) 1% (over \$2,500,000.00)
	This preference does not apply to construction contracts nor where the price of a single unit exceeds \$10,000.
8. West Virginia	2.5% (for the construction, repair or improvement of any buildings)
9. Wyoming	5%

STATE	PROHIBITION
1. New Jersey	For supply procurements or construction projects restricted to Department of General Services Certified Small Businesses, New Jersey bidders shall be excluded from award even if they themselves are Department of General Services Certified Small Businesses.

D. The Reciprocal Limitations Act also requires the Commonwealth not to specify, use or purchase supplies which are produced, manufactured, mined or grown in any state that prohibits the specification for, use, or purchase of such items in or on its public buildings or other works, when such items are not produced, manufactured, mined or grown in such state. The following is a list of the states which have been found by the Department of General Services to have prohibited the use of out-of-state supplies:

STATE	PROHIBITION
1. Alabama	Only for printing and binding involving "messages of the Governor to the Legislature", all bills, documents and reports ordered by and for the use of the Legislature or either house thereof while in session; all blanks, circulars, notices and forms used in the office of or ordered by the Governor, or by any state official, board, commission, bureau or department, or by the clerks of the supreme court . . . /and other appellate courts/; and all blanks and forms ordered by and for the use of the Senate and Clerk or the House of Representatives, and binding the original records and opinions of the Supreme Court . . . /and other appellate courts/
2. Georgia	Forest products only
3. Indiana	Coal
4. Michigan	Printing
5. New Mexico	Construction
6. Ohio	Only for House and Senate bills, general and local laws, and joint resolutions; the journals and bulletins of the Senate and house of Representatives and reports, communications, and other documents which form part of the journals; reports, communications, and other documents ordered by the General Assembly, or either House, or by the executive department or elective state officers; blanks, circulars, and other work for the use of the executive departments, and elective state officers; and opinions of the Attorney General.
7. Rhode Island	Only for food for state institutions.

*If the bid discloses that the bidder is offering to supply one of the above-listed products that is manufactured, mined, or grown in the listed state, it shall be rejected. Contractors are prohibited from supplying these items from these states.

II. CALCULATION OF PREFERENCE

In calculating the preference, the amount of a bid submitted by a Pennsylvania bidder shall be reduced by the percentage preference which would be given to a nonresident bidder by its state of residency (as found by the Department of General Services in Paragraph C_{above}). Similarly, the amount of a bid offering Pennsylvania goods, supplies, equipment or materials shall be reduced by the percentage preference which would be given to another bidder by the state where the goods, supplies, equipment or materials are produced, manufactured, mined or grown (as found by the Department of General Services in Paragraphs A and B above).

THIS FORM MUST BE COMPLETED AND RETURNED WITH THE BID

III. STATE OF MANUFACTURE

All bidders must complete the following chart by listing the name of the manufacturer and the state (or foreign country) of manufacture for each item. If the item is domestically produced, the bidder must indicate the state in the United States where the item will be manufactured. **This chart must be completed and submitted with the bid or no later than two (2) business days after notification from the Issuing Office to furnish the information. Failure to complete this chart and provide the required information prior to the expiration of the second business day after notification shall result in the rejection of the bid.**

ITEM NUMBER	NAME OF MANUFACTURER	STATE (OR FOREIGN COUNTRY) OF MANUFACTURE

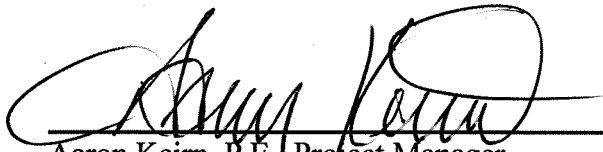
IV. BIDDER'S RESIDENCY

A. In determining whether the bidder is a nonresident bidder from a state that gives or requires a preference to bidders from that state, the address given on the first page of this invitation to bid shall be used by the Commonwealth. If that address is incorrect, or if no address is given, the correct address should be provided in the space below:

Correct Address: _____

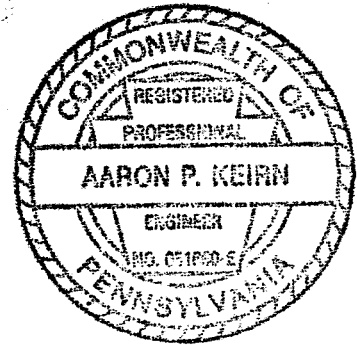
- B.** In order to claim the preference provided under Section I.B., Pennsylvania resident bidders must complete the following or have such information on file with the Issuing Office:
1. Address of bidder's bona fide establishment in Pennsylvania at which it was transacting business on the date when bids for this contract/requisition were first solicited: _____
 2. **a.** If the bidder is a corporation:
 - (1) The corporation is or is not incorporated under the laws of the Commonwealth of Pennsylvania.
 - (a) If the bidder is incorporated under the laws of the Commonwealth of Pennsylvania, provide date of incorporation: _____
 - (b) If the bidder is not incorporated under the laws of the Commonwealth of Pennsylvania, it must have a certificate of authority to do business in the Commonwealth of Pennsylvania from the Pennsylvania Department of State as required by the Pennsylvania Business Corporation Law (15 P.S. §2001). Provide date of issuance of certificate of authority: _____
 - (2) The corporation is or is not conducting business in Pennsylvania under an assumed or fictitious name. If the bidder is conducting business under an assumed or fictitious name, it must register the fictitious name with the Secretary of the Commonwealth and the office of the prothonotary of the county wherein the registered office of such corporation is located as required by the Fictitious Corporate Name Act, as amended 15 P.S. §51 et seq. Corporate bidders conducting business under an assumed or fictitious name must provide date of registry of the assumed or fictitious name: _____
 - b.** If the bidder is a partnership:
 - (1) The partnership is or is not conducting business in Pennsylvania under an assumed or fictitious name. If the bidder is conducting business under an assumed or fictitious name, it must file with the Secretary of the Commonwealth and the office of the prothonotary the county wherein the principal place of business is located as required by the Fictitious Name Act of May 24, 1945, P.L. 967, as amended 54 P.S. §28.1. Partnerships conducting business under an assumed or fictitious name must provide the date of filing of the assumed or fictitious name with the Secretary of the Commonwealth: _____
 - (2) The partnership is or is not a limited partnership formed under the laws of any jurisdiction other than the Commonwealth of Pennsylvania. If the bidder is an Out-of-state limited partnership, it must register with the Pennsylvania Department of State as required by the Act of July 10, 1981, P.L. 237, as amended, 59 Pa. C.S.A. §503. Out-of-state limited partnerships must provide the date of registry with the Pennsylvania Department of State: _____
 - c.** If the bidder is an individual:

He or she is or is not conducting business under an assumed or fictitious name. If the bidder is conducting business under an assumed or fictitious name, he or she must file with the Secretary of the Commonwealth and the office of the prothonotary in the county wherein the principal place of business is located as required by the Fictitious Name Act of May 24, 1945, P.L. 967, as amended, 54 P.S. §28.1. Individuals conducting business under an assumed or fictitious name must provide the date of filing of the assumed or fictitious name with the Secretary of the Commonwealth: _____



Aaron Keirn, P.E., Project Manager
Pennsylvania Game Commission

12/30/19
Date



TECHNICAL SPECIFICATIONS

The following stipulations, specifications and description of work are defined and described as Technical Specifications and it is understood and agreed that everything herein contained is hereby made part of the contract. Wherever any feature of the work is not fully set forth in these Technical Specifications, it must be understood that the same shall be governed by the rules of the best prevailing practice for that class of work, as determined by the Game Commission’s Representative.

These Technical Specifications and any drawings, maps and/or plans forming a part thereof, will cover the furnishing of all labor, technical assistance, equipment, tools and materials necessary to perform the design and construction work, as required under this contract.

- Section 1 Summary of Work
- Section 2 Concrete
- Section 3 Framing Lumber and Carpentry
- Section 4 Roof Trusses
- Section 5 Anchors
- Section 6 Building Envelope Insulation
- Section 7 Metal Siding and Roof Panels
- Section 8 Soffits and Fascia
- Section 9 Doors
- Section 10 Eave Light Panels
- Section 11 Gutters and Downspouts
- Section 12 Electric Service (Contract No. 2: Electrical)
- Section 13 Lighting and Electric (Contract No. 2: Electrical)
- Attachment 1 PA Dept. of Labor and Industry Building Permit No. 201901408
Uniform Construction Code (UCC) Inspection Log

DRAWINGS

The following drawings are included:

- 1 of 5 - Location Map, Site Plan, Building Plan
- 2 of 5 - Elevations
- 3 of 5 - Framing Details
- 4 of 5 - Framing Details
- 5 of 5 - Electrical Details

TECHNICAL SPECIFICATION SECTION 1 - SUMMARY OF WORK

1.1 – SCOPE OF PROJECT

The intent of this project is to construct a new 40' x 100' storage building on an existing concrete slab. The new building is located on State Game Lands (SGL) No. 234 in Limerick Township, Montgomery County.

The project consists of two (2) Construction Contracts:

Contract No. 1 – General: Furnish and install building structure, walls, roof, metal roofing and siding, door installation, and other building appurtenances / related work.

Contract No. 2 – Electrical: Furnish and install electrical service, power distribution, lighting, and fixtures.

1.2 – WORK AREA

The work area for this project is on SGL #234 approximately 2.25 miles west of Schwenksville. The site address is 291 Game Farm Road, Schwenksville, PA 19473. The work site is located on a relatively level area accessible by paved public road (S.R. 4018 Game Farm Road). The property is owned by the PGC. A location map is shown on the drawing.

1.3 – WORK HOURS

The work hours at the project site are during regular PGC business hours which are Monday through Friday, 7:45AM to 4:00PM. Work during different hours must have prior written approval by the PGC. Requests for different working hours must be submitted in writing two days in advance.

1.4 – ACCESS TO WORK AREA

Access to the work area(s) will be directly from a stabilized driveway which connects to a paved public road. The Contractor must keep the PGC access road clear; parking of vehicles and equipment on the driveway is prohibited. The PGC staff will be continuing regular operations at the site during the demolition project. The Contractor shall coordinate vehicle and equipment parking and building demolition activities with the PGC staff at the site to avoid disrupting PGC operations.

1.5 – SITE LAYOUT AND PREPARATION

The PGC demolished a structure at the site. The Contractor shall verify the dimensions of the concrete slab before ordering any materials. The Contractor may adjust the building width dimensions to match the existing concrete slab and foundation.

1.6 – PERMITS, LAWS AND REGULATIONS

The PGC will secure a building permit from the PA Department of Labor and Industry (L&I) for construction of this building. A copy of the Building Permit will be provided to the contractor along with an inspection log checklist. The contractor shall notify the L&I inspector and coordinate with the PGC so that required inspections take place and the project is not delayed. Local building code officials have no jurisdiction over this project. The Contractor shall procure and pay for all other permits, licenses, inspections, conveniences, or other approvals necessary for the execution of the contract.

The Contractor shall coordinate, acquire, pay for, and maintain for the duration of the project any and all permits or bonds required by local municipalities and/or PennDOT to utilize public roads for heavy hauling and related construction activities. Responsibilities shall include any pre or post construction inspections and related reports if required. Any and all costs related to permitting and bonding public roadways shall be included with and incidental to the Bid submitted by the Contractor and will not be paid for separately.

The Contractor shall comply with all laws, ordinances, rules, orders and regulations relating to the performance of the work, the protection of adjacent property, the maintaining of surface passageways, safety measures, and/or other protective facilities.

All applicable Federal and State laws and regulations and regulations of all utilities, having jurisdiction over construction of the project shall apply to the contract throughout, and they shall be deemed to be included in the contract as a part, thereof, the same as though herein written out in full.

All regulations of the Occupational Safety and Health Act are in effect on this contract. It will be the Contractor's responsibility to make himself aware of all appropriate County, State and Federal regulations that apply to this contract.

Costs and expenses resulting from any violations and/or delays incurred from improper execution of the above provisions shall be the Contractor's responsibility.

TECHNICAL SPECIFICATION SECTION NO. 2 – CONCRETE

2.1 - SCOPE

This work is furnishing all materials, plant, and equipment, and performing all labor for the manufacture, transporting, placing, finishing, patching, curing, and testing of concrete to be placed under the Contract. Concrete is to be used for the curb wall for the new building. The Contractor shall protect all concrete against injury until final inspection and acceptance by the Game Commission.

Except as herein qualified, matters pertaining to measuring, placing and testing of concrete; materials used; construction of formwork; concrete finishing; curing of concrete; detailing, fabricating and placing of reinforcing and accessories shall be governed by the following codes and regulations:

- A. Building Code Requirements for Reinforced Concrete (ACI 318)
- B. Current "Manual of Standard Practice for Detailing Reinforced Concrete Structures" (ACI 315)
- C. Current "Recommended Practice for Measuring, Mixing, and Placing Concrete" (ACI 304)
- D. All matters in connection with concrete work, not otherwise specified, shall conform to the applicable sections of the Pennsylvania Department of Transportation Specification Publication 408.

2.2 - TESTING AND CERTIFICATIONS

Obtain all concrete from a PennDOT approved source. Submit a concrete mix design for each supplier to the Game Commission for approval 3 days prior to placing concrete.

Provide product information, and/or original certifications for the following items: cement, admixtures, aggregates, preformed expansion joint filler, epoxy bonding compound, joint seal material, and curing compound.

2.3 - COMPOSITION

Concrete shall be composed of Portland cement, water, fine and coarse aggregates and approved admixtures, all well mixed and brought to the proper consistency.

- A. Concrete shall be Class A and shall develop a minimum compressive strength of 3,300 psi in twenty-eight (28) days.

- B. Concrete shall be obtained from a batch plant currently approved by the Pennsylvania Department of Transportation (PennDOT) or the Department.
- C. Ready-mixed concrete shall be mixed and delivered in accordance with ASTM Designation C94.

2.4 - MATERIALS

All materials shall be obtained from sources listed in PennDOT Bulletin 14 or PennDOT Bulletin 15 as applicable.

A. Cement - Cement shall be one of the following types:

- (1) Normal Strength Air-Entraining Portland Cement, Type IA or Type IIA, conforming to ASTM Designation C150.
- (2) Normal Strength Air-Entraining Portland Blast Furnace Slag Cement, Type IS-A, conforming to ASTM Designation C595.

B. Admixtures - Approved types of admixtures meeting ASTM Designation C260, increasing the plasticity and workability of the concrete may be used.

C. Water - Water for concrete shall be clean and free from injurious amounts of oil, acid, alkali, organic matter, or other deleterious substances.

D. Aggregates - Aggregates for concrete of normal weight shall conform to "Specifications for Concrete Aggregates" (ASTM C33).

E. Preformed Expansion Joint Filler - Preformed expansion joint filler shall be of the size shown on the Drawings, shall be gray in color, and shall conform with the requirements of AASHTO M153, Type 1, sponge rubber. Joint filler shall be solid sponge rubber, and no reprocessed material will be accepted. Joint filler made of numerous pieces of sponge rubber which adhere to each other will not be acceptable. The material shall be stored as recommended by the manufacturer.

F. Joint Seal Material - The joint seal material shall conform with the requirements of ASTM C290 such as Sikaflex-2c or Sikadur 51 as manufactured by the Sika Corporation, Lyndhurst, New Jersey or an approved equal. The material shall be stored as recommended by the manufacturer.

G. Curing Compound - The curing compound shall be clear or translucent containing a red fugitive dye conforming to the requirements of AASHTO M148, Type 1-D, and must not affect water in any respect to injure fish life or impair or be detrimental to water for human consumption. The curing compound shall be stored as recommended by the manufacturer.

2.5 – PREPARATION OF AREAS TO RECEIVE CONCRETE

Clean existing surfaces and remove all loose and any organic material from the areas to receive concrete.

2.6 - JOINTS AND EMBEDDED ITEMS

Place anchors and reinforcement as shown on the Drawings. All embedded items shall be clean and free of dust, grit, mud, oil or grease, and shall be held firmly in place to avoid displacement during concreting.

2.7 - FORMWORK

Forms shall conform to the shapes, lines, grades, and dimensions of the concrete as called for on the Drawings. They shall be sufficiently tight to prevent leakage of mortar and shall be properly braced or tied together so as to maintain the desired position and shape during and after placing concrete. Forms shall be removed in such a manner as to assure the complete safety of the structure.

2.8 - CONCRETE PLACEMENT

A. Depositing - Concrete shall be deposited in the presence of a representative of the Game Commission.

In all cases, concrete shall be deposited as nearly as practicable in its final position and not allowed to flow in a manner to permit or cause segregation and loss of slump. Once concreting is started, the operation shall be carried on continuously until the placing of the panel or section is completed. Concrete shall be placed in continuous, approximately horizontal layers, the depths of which generally shall not exceed twenty (20) inches.

All conveying equipment shall be of such size and design as to insure a practically continuous flow of concrete at the forms. Free falls of more than four (4) feet are not permitted.

Any concrete that has been contaminated by foreign matter or which has become so stiff that proper placing can not be assured, shall be wasted.

If unfavorable weather conditions exist, the Game Commission may order the work stopped, either before concreting has started or after it is in progress, until a suitable formwork or covering is set up on the site to protect fresh concrete from rain, hail, snow, or other unfavorable conditions.

B. Consolidation - Concrete shall be consolidated by vibration so that concrete is thoroughly worked around the reinforcement, around embedded items, and into corner of forms, eliminating all air or stone pockets which may cause honey-combing, pitting, or planes of weakness. Internal vibrators shall be of the largest size and the most powerful that can be properly used in the work, as described in Table 5.1.4 of ACI 309, and they shall be operated by competent workers. Vibrators shall not be used to transport concrete within the forms and shall not be attached to the

reinforcing bars to consolidate concrete. Vibrators shall be inserted and withdrawn at points approximately eighteen (18) inches apart. At each insertion, the duration shall generally be between five (5) and fifteen (15) seconds, sufficient to consolidate concrete, but not sufficient to cause segregation. A spare vibrator shall be kept at the job site during all concrete placing operations. Before continuing the placement operations, any displacement of reinforcement, forms, or embedded items as a result of placement or vibration shall be corrected. Concrete which has been segregated by over vibration shall be removed and discarded. Proper care shall be used to ensure that the vibrators does not penetrate or disturb layers which have partially hardened. If directed by the Game Commission, exposed form surfaces shall be spaded in addition to vibration to minimize bubbles in concrete surface.

2.9 - REMOVAL OF FORMS AND REPAIR OF CONCRETE

A. Removal of Forms - Forms shall be removed as soon as practicable to avoid delay in curing and to enable earliest repair of surface imperfections. The time of form removal shall be based on the effect on the concrete; there shall be no damage to the concrete, due either to the removal of support or to the form stripping operation. Forms shall be carefully removed to avoid injury to the concrete, and satisfactorily repair any concrete so damaged. Forms shall not be removed until twenty-four (24) hours has elapsed from concrete placement except when specifically authorized by the Game Commission. During cold weather, forms shall be kept in place for five (5) days, unless otherwise authorized by the Game Commission. The Contractor shall accept full responsibility for any damage to concrete incurred by stripping too early.

B. Repair of Concrete - Repair of concrete shall be performed by skilled workers and in the presence of a representative of the Game Commission. Repairs shall be completed within 48 hours after removal of forms. When directed by the Game Commission, the Contractor shall repair or remove and replace any concrete that does not meet the requirements of any portion of this Technical Specification. Any concrete which is not satisfactorily repaired shall be removed and replaced.

2.10 - TOLERANCES

The concrete surfaces and reinforcing steel shall conform to the tolerance limits listed in the following tables. Permissible surface irregularities for the various classes of concrete surface finish as specified in "Finishing Concrete" section of these specifications are defined as "Finishes," and are to be distinguished from tolerances as described herein. The Contractor shall establish and maintain, in an undisturbed condition and until final completion and acceptance of the Project, sufficient control points and benchmarks to be used for reference purposes to check tolerances. Concrete work that exceeds the tolerance limits specified shall be satisfactorily remedied or removed and replaced by and at the expense of the Contractor.

CONCRETE TOLERANCES		
Variation from established lines	Change in 10 feet Maximum permissible	1/4 inch 1 inch

Variation from the plumb in lines and surfaces	In 10 feet In 20 feet In 40 feet	1/4 inch 3/8 inch 3/4 inch
Variation from the level or from the grades indicated on the Drawings for top of walls	In 10 feet In 20 feet In 40 feet	1/4 inch 3/8 inch 3/4 inch
Variation in thickness of slabs and walls	Minus Plus (Walls) Plus (Slabs)	1/4 inch 1/2 inch No limit
Footings:		
(1) Variation of dimensions in Plan	Minus Plus	1/2 inch 2 inches
(2) Misplacement or Eccentricity	Not more than	2 inches
(3) Reduction in thickness	Minus	5% of thickness

NOTE: No abrupt changes in line, grade or dimension will be permitted for any of the conditions listed above. Variations in thickness will be permitted only as "spot" conditions and shall not extend over large areas.

Reinforcement steel shall be fabricated in accordance with the fabricating tolerances given in ACI 315 and shall be placed conforming to the tolerance limits listed in the following table:

REINFORCEMENT STEEL TOLERANCES		
Variation for Protective Covering	With 2-inch cover With 3-inch cover	1/4 inch 1/2 inch
Variation from indicated spacing for individual bar		1/2 inch
Variation from lap	Minus Plus	0 inch No limit

2.11 - FINISHING CONCRETE

A. General - Allowable deviations from plumb or level and from alignment, grades, and dimensions shown on the Drawings and as specified in Section 7.10 are defined as "tolerances," and are to be distinguished from finishes as described herein. Finishing shall be completed immediately after removing the forms.

B. Formed Surfaces - All formed concrete surfaces shall be treated as described below by a skilled concrete finisher.

Holes shall be filled, and defective areas repaired immediately after form removal. Fins and irregularities shall be removed or corrected. There shall be no conspicuous offsets, bulges or misalignment of concrete.

C. Unformed Surfaces - All unformed surfaces shall be finished in accordance with the following requirements by a skilled concrete finisher:

Immediately after vibration is completed, the surface shall be leveled and screeded sufficiently to produce an even, uniform texture.

Floating shall be done by hand or power-driven equipment. Floating shall not start until some stiffening has taken place in the surface concrete and the moisture film or "shine" has disappeared. The floating should work the concrete no more than necessary to produce a surface that is uniform in texture and free of screed marks. Any necessary cutting or filling of surface to prevent irregularities should be done during the floating operations. Joints and edges shall be finished with edging tools at this time.

After floating is completed, apply a light steel trowel finish to the top surface of the floor slab concrete. Light surface pitting and light trowel marks are not objectionable. For the doorway ramps and front apron slab; apply a light broom finish for traction.

2.12 - CURING AND PROTECTION

A. General - After finishing operations are completed, the concrete shall be membrane cured. A minimum of seven (7) consecutive days of curing and protection shall be required. The following definitions of air temperature and curing temperature are specified below, as they will be mentioned frequently in this section:

Air Temperature - The measured temperature in the shade, not in the direct rays of the sun, and away from artificial heat.

Curing Temperature - The temperature of the air immediately adjacent to concrete. Where concrete is not covered by forms or other protective coverings, or where protective coverings are considered inadequate, the curing temperature will be considered as being not more than the air temperature. During cold weather, the curing temperature is the temperature inside the forms, protective coverings or housings. The curing temperature for the first 24-hour period after placing concrete will be considered as not more than the temperature of the concrete at the time of its placement in the forms.

B. Insulation - High-low thermometers shall be provided and an accurate daily record of air and curing temperatures maintained during cold weather. These temperatures shall be submitted

daily to the Game Commission. Curing temperatures shall be taken on the surface of the concrete and at representative locations on structures.

Adequate care shall be provided so that at any time during the curing period the curing temperature does not fall below 50°F. Any day during which the curing temperature drops below 50°F but remains above 35°F, will not be considered as day as a curing day and the duration of the curing period shall be extended accordingly. If at any time during the curing period, the curing temperature falls below 35°F, the contractor shall core and test the concrete at his own expense. The concrete shall be considered satisfactory and acceptable if the strength and durability requirements of Section 7.3.1 are met.

In moderate weather, when the forecasted air temperature is expected to be between 35°F and 50°F, in addition to membrane curing, insulated blankets shall be furnished and placed over concrete and forms.

During cold weather, when the forecasted air temperature is expected to be 35°F or lower, cure shall be by the methods prescribed for curing in moderate weather, and in addition, furnish and install canvas covered frames or some type of approved housing that will completely enclose the fresh concrete and forms. Sufficient approved heating apparatus (preferably steam equipment) shall be furnished to maintain the temperature of air surrounding the fresh concrete between 50°F and 80°F, for seven (7) days. Concrete covers shall be kept moist during the curing period. After seven (7) days, the temperature shall gradually be lowered within the housing to the outside temperature over a period of 72 hours. When heating apparatus is required, special care shall be provided to prevent the concrete from drying. Combustion heaters shall not be used during the first 24 hours unless adequate precautions are taken to prevent exposure of the concrete to exhaust gases which contain carbon dioxide. Arrangements shall be made for heating, covering, insulating, or housing the concrete work, in advance of placement, and they shall be adequate to maintain the required temperature without injury to the concrete due to concentration of heat.

Changes in air temperature immediately adjacent to the concrete during and immediately following the curing period shall be kept as uniform as possible, not exceeding five (5) degrees Fahrenheit in any one (1) hour or 50°F in any 24-hour period.

C. Membrane Curing - Finishing of the concrete surfaces shall be completed prior to the application of curing compound.

Curing compound shall be applied in two (2) coats, each coat covering 300 square feet of concrete surface per gallon. A pressure tank type spraying equipment shall be used, which shall provide continuous agitation of the compound during coating operations. Do not use ordinary orchard-type hand sprays. To insure thorough and complete coverage of the concrete surfaces, the first coat shall be applied by moving the spray gun back and forth in one direction, and the second coat immediately thereafter by moving the spray gun at right angles to the direction of the first coat.

The first coat shall be applied immediately after finishing operations are completed. The second coat shall be applied immediately after the first coat has set.

D. Protection - All concrete shall be protected against injury until final inspection and acceptance by the Game Commission.

During the curing period, the concrete shall be protected from damaging mechanical disturbances, such as load stresses, heavy shock, and excessive vibration. All finished concrete surfaces shall be protected from damage by construction equipment, materials or methods, by application of curing procedures, and by rain or running water.

Until final inspection and acceptance by the Game Commission, the Contractor shall repair, or remove and replace any damaged concrete at no additional cost to the Game Commission.

2.13 - MEASUREMENT AND PAYMENT

Lump Sum – Concrete curb wall work shall be measured and paid for as a Lump Sum item.

TECHNICAL SPECIFICATION SECTION NO. 3 – FRAMING LUMBER AND CARPENTRY

3.1 - SCOPE

This work is providing and installing, lumber, sheathing, fasteners, and related materials necessary to construct the building.

3.2 - MATERIALS

A. Dimension Lumber – The lumber used to frame the building should be of the sizes, spacing and arrangement shown on the Drawings. The lumber should conform to the following requirements.

1. Grading Agency – Southern Pine Inspection Bureau, Inc. (SPIB)
2. Nominal sizes – as indicated on the Drawings, S4S.
3. Moisture content – S-dry or MC19
4. Structural Grade – No. 2

B. Treated Lumber – Same as dimension lumber plus treatment by ACQ (waterborne preservative), 0.4 pcf retention in conformance with the American Wood Preservers Association (AWPA). Use category UC2 for interior construction not in contact with the ground, use category UC3b for exterior construction not in contact with the ground and use category UC4a for items in contact with the ground.

C. Structural Wood Panels – Panels shall be manufactured of compressed wood strands arranged in layers at right angles to one another. Panels shall be APA Rated, Structural 1 category, Exposure 1 suitable for wall and roof sheathing.

D. Structural Glued Laminated Timber (Glulam) – Structural Glulam timber shall be provided as shown on the Drawings. Glulam shall conform with ANSI A190.1, American National Standard for Glued Laminated Timber. Members shall be manufactured for structural use as door headers. Glulam shall be industrial grade in accordance with ANSI A190.1. Sealer shall be applied to the ends of all members.

E. Fasteners – Of the sizes and type suited for the applications. Where rough carpentry is exposed to weather, in ground contact, in pressure-treated lumber, or in areas of high relative humidity, provide fasteners of Type 304 stainless steel.

1. Nails, Brads and Staples: ASTM F1667
2. Power-Driven Fasteners: NES NER-272
3. Wood Screws: ASME B18.6.1
4. Lag Bolts: ASME B18.2.1(ASME B18.2.3.8M)

F. Roof Underlayment – Self Adhering Underlayment suitable for High Temperature (HT) applications and installation under metal roof panels shall be provide. Underlayment shall meet the following minimum specifications:

1. Thickness: 50 mil (1.2 mm)
2. Width: 36” rolls
3. High Temperature Stability: 260 deg. F
4. Self Adhering and Cold Applied – No special adhesives required.
5. Compliance with ASTM D1970, Standard Ice Dam Underlayment
6. Surface: Slip Resistant, poly-fabric surface.

Underlayment shall be the All-Purpose High-Temperature Underlayment manufactured by FABRAL Metal Wall and Roof Systems or approved equal.

3.3 - PROCEDURE

Construct the building frame according to the dimensions and layout shown on the Drawings. Frame walls, door openings, window openings, and install girts and sheathing as shown. Provide extra framing lumber around doors and windows to provide the support necessary to install these items. Provide wood blocking for wall and roof sheathing as shown. Provide temporary bracing for the building frame to maintain the integrity of the building as construction progresses.

Install underlayment in accordance with manufacturer’s written instructions.

After construction is complete, remove all temporary bracing and waste lumber from the site.

3.4 - MEASUREMENT AND PAYMENT

Lump Sum.

TECHNICAL SPECIFICATION SECTION NO. 4 – ROOF TRUSSES

4.1 - SCOPE

This work is providing and installing the wooden roof trusses for the new building as shown on the Drawings.

4.2 – TRUSS DESIGN

A. General Dimensions and Features – The trusses shall have a 4:12 pitch and 2-foot overhangs. The trusses shall have a 40-foot span and shall be spaced on 4-foot centers. Trusses must include a spread web for light storage in the truss design.

B. Design Loading – Roof trusses shall be designed for loadings indicated on Drawings.

C. Design Drawings and Calculations – The design drawings and calculations for the trusses must be sealed and certified by a licensed professional engineer (valid Pennsylvania license). The drawings must be submitted for review by the PGC. The truss design shall conform with the applicable provisions of “National Design Specification for Stress-Grade Lumber and Its Fastenings” (National Forest Products Association) and “Design Specifications for Light Metal Plate Connected Wood Trusses” (TPI).

D. Roof Truss Connectors – Provide Hurricane Ties to connect roof trusses to top plates and wall studs. Connectors shall be the Model No. H7Z as manufactured by Simpson Strong-Tie or approved equal.

4.3 - PROCEDURE

Conform to the manufacturer’s recommendations for storing, handling, installing and bracing of the trusses. Provide adequate temporary bracing of the trusses during installation.

Provide adequate permanent bracing of the top chords, bottom chords and web members of the trusses according to the manufacturer’s recommendations. Install wood structural panel sheathing with wood blocking for the roof panels on the top chord of the trusses. Secure the roof trusses to the building frame with galvanized steel hurricane ties or dimensional blocking.

Install Hurricane Ties at both ends of all trusses in accordance with the manufacturer’s instructions.

After construction is complete, remove all temporary bracing and waste lumber from the roof trusses.

4.4 - MEASUREMENT AND PAYMENT

Lump Sum.

TECHNICAL SPECIFICATION SECTION NO. 5 – ANCHORS

5.1 - SCOPE

This work is providing and installing the anchors for securing the building frame to the existing foundation and floor as shown on the Drawings.

5.2– MATERIALS

A. Anchor Rod – Hilti HAS-E-55 carbon steel threaded rod conforming to ASTM F1554, Grade 55. Rods shall have an electroplated zinc coating in accordance with ASTM B633, SC 1. Type, size, and location of anchor rods shall be as indicated on Drawings.

B. Nuts and Washers – Nuts shall be carbon steel conforming to the requirements of ASTM A194/194M, Grade 2H, Heavy or ASTM A563-15, Grade C. Washers shall be carbon steel conforming to the requirements of ASTM F844, HV and ANSI B18.22.1 Type A Plain. Nuts and washers shall have an electroplated zinc coating in accordance with ASTM B633, SC 1.

C. Reinforcing Bar and Dowels – Reinforcing bar and dowel anchors shall be continuously deformed A615 Grade 60 steel rebar. Dowels shall be provided with 45-degree chisel-points at embedded end. Type, size, and location of reinforcing bar and dowel anchors shall be as indicated on Drawings.

D. Adhesive Anchor System:

- 1.) Rebar Dowels in Concrete Floor – Hilti HIT-HY 200 Safe Set Adhesive Anchor System.
- 2.) Anchor Rod in Concrete Curb Wall / Concrete Floor - Hilti HIT-HY 200 Safe Set Adhesive Anchor System.
- 3.) Anchor Rod in Grout Filled Concrete Block Foundation Wall - Hilti HIT-HY 270 Safe Set Adhesive Anchor System.

E. Holdowns – Holdowns shall be Model No. HTT5-3/4.

F. Manufacturer - Anchors and adhesive anchor systems shall be as manufactured by Hilti, Inc. or approved equal. Holdowns shall be as manufactured by Simpson Strong-Tie or approved equal.

5.3 - SUBMITTALS

Submit a catalog cut or other information from the manufacturer for the anchors and adhesive anchor systems to the PGC for review and approval before ordering any materials.

5.4 - PROCEDURE

Mark the locations of the anchors on the top surface of the concrete floor and foundation wall. Use templates to locate anchors accurately. Make sure to measure the correct offsets so that the building frame is plumb and square when attached to the anchors.

Drill or core the holes for the anchor bolts using equipment and methods as recommended by the manufacturer and in accordance with the manufacturer's instructions. Clean the holes according to the manufacturer's recommendations. Install the anchors and adhesive anchor systems in accordance with the manufacturer's instructions.

Secure the wall sections according to the details shown on the drawings.

5.5 - MEASUREMENT AND PAYMENT

Lump Sum.

TECHNICAL SPECIFICATION SECTION NO. 6 – BUILDING ENVELOPE INSULATION

6.1 - SCOPE

This work involves providing insulation blanket on the walls of the new building as shown on the Drawings.

6.2 – MATERIALS

Building Envelope Insulation – The insulation to be installed on the exterior envelope of the building shall be Prodex Total 48-inch insulation or an approved equal conforming to the following characteristics:

1. Blanket structure – 5 layers, aluminum foil, polyethylene backing, closed cell polyethylene foam, polyethylene backing, aluminum foil
2. Nominal thickness – 13/64-inches (5mm)
3. Perm Rating – Less than 0.1 according to ASTM E96
4. Noise reduction – 19dba impact noise (IRAM 4063)
5. Flame Spread Index – 25 or less (ASTM E84-10)
6. Smoke Developed Index – 45 or less (ASTM E84-10)
7. Insulating Value – R-14

This foil faced insulation shall be installed on outside of the wall girts behind the metal siding.

6.3 - PROCEDURE

Store insulation materials indoors before installation. Keep insulation clean and dry. When transporting, cover with a waterproof tarpaulin as necessary.

Install the building envelope insulation over the outside face of the wood wall girts. Cut the building envelope materials neatly around doors and windows. Seal all seams and around doors and windows with a vapor retarder tape. Conform to the manufacturer's recommendations for installation to avoid damage to the material.

6.4 - MEASUREMENT AND PAYMENT

Lump Sum.

TECHNICAL SPECIFICATION SECTION NO. 7 – METAL SIDING AND ROOF PANELS

7.1 - SCOPE

This work is providing and installing the metal siding and roof panels on the new building frame and roof trusses as shown on the Drawings. Snow guards shall be installed in two (2) rows staggered on the front (south side) of the building.

7.2 – MATERIALS

A. Siding and Roof Panels – The siding and roof panels shall be fabricated from galvanized steel sheet with a minimum coating of 0.90 oz/SF – panel substrate shall be “Galvalume” steel. The roof panels shall be minimum 26-gauge (80 ksi) steel sheet stock capable of supporting the design roof loading. Panels shall be 36” wide minimum with ¾” ribs spaced at 9” maximum. The roof panels shall be full length from ridge to eave. The ridge and eaves shall be fitted with continuous gaskets. The finish color of the roof panels and snow guards is GREEN.

The siding panels shall be minimum 26-gauge steel stock with the same configuration and finish as the roofing panels with a finish color is BEIGE / BROWN. Siding shall include wainscoting panels that extend four (4) feet up the side of building from the bottom. The finish color of the wainscoting panels shall be GREEN.

Metal panels shall comply with Class 90 uplift test rating (UL 580) and UL 2218 Class 4 Hail Impact Rating.

Panels shall be warranted for 30-years against fade and chalk and 20-years for non-perforation.

B. Trim – Steel sheet stock pre-fabricated into ridge cap, end wall flashing, gable end trim, corners, dew drip caps, door jambs trim, cut edge trim and side wall flashing. The finish color of the trim is WHITE. Window and door jambs color shall be WHITE.

C. Sealants and Fasteners – Manufacturer’s standard type exterior sealants and gaskets, ring shank nail fasteners w/neoprene washers, galvanized to ASTM A153, finished to match exposed siding. Screw fasteners, cadmium plated self-tapping, hex head with washer and soft neoprene sealing ring finished to match metal roof surface.

D. Snow Guards – Snow guards shall be designed for use with exposed fastener panels on 2 x 4 purlins in the flat position. Snow guards shall be made with 16 Ga. Type 304 Stainless Steel with EPDM rubber sealer with a powder coated GREEN finish. Snow guards shall be compatible with the metal roof panels as recommended by the roof panel manufacturer. Snow guards shall be “Snow Defender 4500” or approved equal.

7.3 - PROCEDURE

Size panels to the proper dimensions for installation. Roofing and siding panels can be pre-cut to the proper dimensions before delivery to the site. Install the roofing and siding panels on the roof and wall frame and secure with recommended type and quantity (spacing) of fasteners. Siding panels are to be installed with the corrugations running vertically. Cut “custom” panels at the site for gable ends if necessary. The Contractor should shear or use snips to cut siding and roof panels to minimize the potential to damage the protective coatings on the panels. The Contractor should punch holes for fasteners instead of drilling holes.

Install snow guards on the roof eaves. Spacing, location and method of attachment are to conform to the roof panel manufacturer’s recommendations.

Install finish trim sections either before or after siding and roof panels are placed. Make sure all edges and ends are properly sealed with gaskets or sealants.

After construction is complete, remove all waste pieces of roof and siding panels, trim and fasteners from the site.

7.4 - MEASUREMENT AND PAYMENT

Lump Sum for the metal siding and roof panels. Installation of snow guards is incidental to the installation of the roof and will not be measured and paid for separately.

TECHNICAL SPECIFICATION SECTION NO. 8 – SOFFITS AND FASCIA

8.1 - SCOPE

This work is providing and installing the soffits and fascia at the roof overhangs for the new building as shown on the Drawings.

8.2 – MATERIALS

A. Soffits – The soffits shall be pre-formed, pre-painted aluminum alloy (minimum 0.019-inch-thick sheet stock) formed to a V-groove section, fully perforated surface and finish color GREEN.

B. Fascia – Fascia shall be pre-formed, pre-painted aluminum alloy (minimum 0.019-inch-thick sheet stock) with plain surface and finish color GREEN.

C. Nails – Aluminum; use prefinished GREEN nails for soffits and fascia.

D. Trim – F-channel and angles of the same material and finish as soffit and fascia.

E. Sealant – Silicone, single component, solvent curing, clear color.

8.3 - PROCEDURE

Install F-channel on top wall girt before metal siding panels and trim are installed. Secure soffit sections in F-channel and nail to 2"x6" fascia on the roof edges. Install trim sections and apply sealant as necessary to the soffits and fascia.

8.4 - MEASUREMENT AND PAYMENT

Lump Sum.

TECHNICAL SPECIFICATION SECTION NO. 9 – DOORS

9.1 - SCOPE

This work is providing and installing the steel entry doors and garage doors in the new building as shown on the Drawings. Doors shall be provided with the necessary thresholds and/or weather-stripping/caulk as needed to provide for a tight weather resistant seal.

9.2– MATERIALS

A. General – The steel entry doors have swing-in and have left side hinges. All locks are to be keyed alike – **coordinate keying requirements with PGC staff at the site.** Manufacturers are quoted for hardware, locksets, gaskets, closers, etc. for the doors to set standards for performance and finish; other manufacturers are acceptable provided that their products are the same level of quality.

B. Steel Entry Doors - The steel entry doors in the new building shall have the following features and characteristics. The doors shall be supplied with vertical narrow lights. Ceco Door Products Medallion Series conforming to the following specifications, but other manufacturers are acceptable.

1. Entry doors are galvanized 18 gage steel flush 3'-0" x 7'-0" panel w/non-insulated core conforming to ANSI A250.8-03.
2. Pre-hung units with galvanized 16 gage (minimum) steel double rabbet frame (knock down).
3. Factory applied baked on primer with a factory or field applied white enamel finish coat on door and frame applied according to the manufacturer's instructions.
4. Doors are 1-3/4" thick full flush with honeycomb core.
5. Equipped with Corbin Russwin ED5200 panic bar hardware, TH957 device trim and handle with 630 satin stainless-steel finish.
6. Satin finish stainless steel hinges.
7. Equipped with Norton CPS-750-T door closer with 693 black finish.
8. Equipped with Rockwood K1050 (10"x34") kick plates (one side) with 630 satin stainless-steel finish.
9. Equipped with weather tight gaskets.
10. Equipped with aluminum mill finish threshold.
11. Equipped with National Guard Products C607DKB nylon brush seal.
12. Stanley Best Access products 1E72 rim cylinder with 613 satin stainless-steel finish.

C. Garage Doors – The garage doors in the new building shall have the following features and characteristics.

1. "Garaga" Industrial steel 12'-0" (wide) x 12'-0" (high) doors and 14'-0" (wide) x 14'-0" (high) w/non-insulated core.
2. Model 8000.
3. Factory applied primer with white finish coat on door.

4. Torsion spring.
5. 14'-0" doors shall be furnished with Standard Lift track and associated hardware.
6. 12'-0" doors shall be furnished with High Lift track and associated hardware.
7. Lock included.
8. Equipped with two 21' x 13" windows with black frames.
9. Professional installation by manufacturer's representative.

9.3 – SUBMITTALS

Submit a catalog cut and other information for the steel entry doors, garage doors and accessories from the manufacturers to the PGC for review and approval before ordering any materials.

9.4 - PROCEDURE

Install the steel entry doors and frames according to the manufacturer's instructions. All steel surfaces of the doors and frames are to be factory primed and a factory or field painted finish. The finish coat of the steel doors and frames shall be a white outdoor grade enamel. The garage door tracks, torsion springs and garage doors are to be installed by a manufacturer's representative.

9.5 - MEASUREMENT AND PAYMENT

Each according to the type of door. No separate measurement or payment will be made for the frames, accessories, door hardware and keys.

TECHNICAL SPECIFICATION SECTION NO. 10 – EAVE LIGHT PANELS

10.1 - SCOPE

This work is providing and installing the polycarbonate eave light panels as shown on the Drawings.

10.2 – MATERIALS

A. Eave Light Panels – Eave light panels shall match the contour of the wall panels. Light panels shall be corrugated polycarbonate with minimum panel thickness of 0.047 inch (1.2 mm). Light panel color shall be SOFT WHITE allowing 85% light transmission. Panels shall be UV resistant and shall block UV-A and UV-B. Light panels shall be the SunSky model by Palram Americas or approved equal.

B. Fasteners – Screws shall be suitable and recommended by the manufacturer for use with polycarbonate panels on wood structures. Screws shall be #14galvanized screws w/ 25mm washer and gasket; length 1-1/2”.

C. Sealants – Use only the sealants provided or recommended by the panel manufacturer as being compatible with polycarbonate.

10.3 - PROCEDURE

Install panels in accordance with the manufacturer’s recommendations. Adhere to installation recommendations regarding thermal expansion. Pre-drill panels with oversize holes to accommodate expansion and contraction as recommended by the manufacturer.

Cut panels to length and install vertically with exterior (UV resistant) side out.

Apply butyl rubber sealing tape along girts as recommended by the panel manufacturer.

Provide caulking between framing and “Z” trim and at every joint.

After construction is complete, remove all waste pieces of roof and siding panels, trim and fasteners from the site.

10.4 - MEASUREMENT AND PAYMENT

Lump Sum.

TECHNICAL SPECIFICATION SECTION NO. 11 – GUTTERS AND DOWNSPOUTS

11.1 - SCOPE

This work is providing and installing gutters and downspouts for the new building. Gutters must run the entire length of the north and south eaves of the new building. A downspout and concrete splash block must be installed at all four corners of the new building.

11.2 – MATERIALS

A. Gutters – Aluminum (0.032 minimum) “K-Style” with baked on GREEN finish. Gutter shall be seamless for the length of the roof. Gutter shall be standard 5-inch width.

B. Downspouts –Aluminum (0.019 minimum) square with baked on GREEN finish and 3-inch by 4-inch cross section minimum. Provide wide flange oval outlet for gutter to match size of downspout.

C. Hangers and Brackets – Hidden hanger for K-Gutter w/ screw or as recommended by gutter and downspout manufacturer.

D. Accessories – Provide elbows, end caps, etc. matching material and finish of gutter and downspout as required for installation.

E. Splash Blocks – Precast concrete, approx. 36” long and 12” wide (min).

11.3 - PROCEDURE

Submit a catalog cut or other information for the concrete splash blocks, gutter and downspout from the manufacturer to the PGC for review and approval before ordering any materials.

Install gutters on the roof eaves of the new building. Secure the gutters to the fascia with hidden hangers. Install downspout drop sections and end caps at the ends of the roof eaves. Connect downspout sections to the gutters and run the downspout along the edge of the building to the splash blocks at ground level.

11.4 - MEASUREMENT AND PAYMENT

Lump Sum for the gutters, downspouts, and splash blocks.

TECHNICAL SPECIFICATION SECTION NO. 12 – ELECTRIC SERVICE
(By Electrical Contractor - EC)

12.1 - SCOPE

This work is furnishing and installing the under-ground (UG) electric service from the existing utility pole to the new building including but not limited to excavation, conduit, conductors, meter socket, and related items in accordance with the National Electric Code (NEC) and utility provider requirements.

12.2 – MATERIALS

A. Conduit – Conduit shall be 3-inch minimum Schedule 80 PVC w/expansion joint and securing straps where needed. Any sweep elbows to be 36” minimum.

B. Service Conductor – Three conductor 4/0 aluminum and/or utility provider approved. Before purchasing cable, obtain approval from utility provider to assure materials meet their specifications and is compatible with utility provider equipment.

C. Meter Socket – The meter socket shall be a self-contained, outdoor type, weatherproof construction, UL listed with a painted finish enclosure. The meter socket shall be mounted in accordance with utility provider specifications and shall have the following features:

1. 4 terminal, ring-less, socket suitable for plug-in meter.
2. Approximate physical dimensions: 11.0”W x 15.5”H x 4.5”D.

D. Grounding Rods – 8-foot long grounding rod(s) and connecting cable. Provide grounding and bonding in accordance with NEC requirements.

E. Warning Tape – Complies with NEC 300.5(D)3.

F. Conduit Bedding – AASHTO #10 coarse aggregate in accordance with PADOT 408 Section 703. Conduit bedding shall extend a minimum of 8” above top of conduit.

12.3 - PROCEDURE

The PGC will initiate a work order with the utility provider (PECO). Please notify them and PGC representatives three weeks prior to when the electric service connections will be made to schedule time to install and energize the electric lines. The PGC will contact and pay required fees (if any) for an electrical inspector to certify that the meter socket installation and associated work meets the utility provider’s requirements.

The Contractor shall furnish and install the conduit, service conductors, grounding rod(s), meter socket and the accessories associated with this work from the existing utility pole to the building as shown on the Drawings and in accordance with the NEC and utility provider’s requirements.

Provide Traffic Control in accordance with PennDOT requirements for work on and adjacent to existing utility pole along roadway.

12.4 - MEASUREMENT AND PAYMENT

Lump Sum.

TECHNICAL SPECIFICATION SECTION NO. 13 – LIGHTING AND ELECTRIC
(By Electrical Contractor - EC)

13.1 - SCOPE

This work is providing and installing the components of the lighting and electric system for the new building as shown on the Drawings.

13.2 – GENERAL

The Drawings are indicative of the character and scope of the electrical work and are not intended to show all the details. The actual location of all wiring, outlets and equipment shall be determined at the site. The Contractor shall investigate the structural and finish conditions affecting the work and arrange all work accordingly to ensure that the electric and other building components are installed correctly.

All work shall be manufactured, tested and installed accordance with the National Electric Code (NEC) (2017), the International Building Code (IBC) (2009) and all applicable local codes. The Contractor shall furnish a fire underwriter's certificate of inspection covering the work installed under this specification. The Contractor shall obtain and pay for all inspections, permits and certificates.

13.3 – MATERIALS

A. Circuit Panel Box – The circuit panel box shall be dead front design complying with NEMA PB 1 and be circuit breaker type. Panel-board bus shall be copper with copper ground bus. The enclosure shall be NEMA PB 1, Type 1 with a surface type cabinet front, screw fastened cover with hinged door and flush lock. Finish color is standard gray enamel. Provide 200-Amp, 20-space (minimum) panel box for the new building. Acceptable manufacturers are Siemens, Cutler-Hammer, Square-D (“Homeline” products not acceptable) or General Electric.

B. Circuit Breakers – The circuit breakers are molded case circuit breakers conforming to NEMA AB 1, bolt-on, quick-make, quick-break. Circuit breakers shall be equipped with integral thermal and instantaneous magnetic trip in each pole. Main circuit breakers shall be bolted directly to the main bus bars. Provide circuit breakers UL listed as Type SWD for lighting circuits. Do not use tandem circuit breakers. Acceptable manufacturers shall be Siemens, Cutler-Hammer, Square-D (“Homeline” products not acceptable) or General Electric.

C. Conduit – Conduit shall be Schedule 40 PVC rigid non-metallic conduit conforming to NEMA TC-2 and UL651. Conduit fittings shall conform to NEMA TC-3 and UL 514b.

D. Conductors – #10 and #12 with THWN insulation. Conductors shall be solid copper with green jacket for ground, white for neutral and black for hot. Aluminum conductors are not acceptable.

E. Outlet and Junction Boxes – PVC with threaded ports for conduit fittings and molded ears with holes for surface mounting; type FS as manufactured by Carlon. Provide closures for unused ports and waterproof covers for receptacle boxes.

F. Outlets and Switches – Rated for 20 amps (or more if required by equipment manufacturer), 120/277 and as manufactured by Hubbell, Bryant, Arrow-Hart, GE, P&S or Leviton.

G. Lighting Fixtures – Conforming to the schedule shown on the Drawings.

H. Bulbs – Maximum wattage as recommended by the light fixture manufacturers.

13.4 - PROCEDURE

The installation of every component in the electrical system must be performed according to the NEC.

Install electric service to the building as shown on the Drawings.

Mount the circuit panel box, lighting fixtures, and receptacle as shown on the Drawings.

Drill holes in the lumber wall framing to run conduit and wiring as necessary to all fixtures, equipment and outlet locations. Conduit shall be installed above the bottom chord of the roof trusses. Secure the conduit to the roof trusses with clamps approved by the manufacturer. Conduit must be extended and connected to all the outlet boxes. **No exposed wiring is permitted – all wire must be in the specified conduit.** Use solvent cement for all conduit joints and connections. Pull wire through conduit without stripping insulation from the conductors.

Install the light fixtures, switches and receptacles in the outlet boxes. Make the required conductor and ground connections. Install the light bulbs in the fixtures.

Power the building and test all fixtures, switches and outlets.

13.5 - MEASUREMENT AND PAYMENT

Lump Sum.

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF LABOR AND INDUSTRY

Bureau of Occupational and Industrial Safety



UNIFORM CONSTRUCTION CODE

BUILDING PERMIT

The plans and specifications for the building or structure named below have been reviewed by the Department of Labor and Industry and found to be in compliance with the Pennsylvania Construction Code Law (1999, November 10, P.L. 491, No. 45).

Permit Number	201901408
Permit Holder	AARON KEIRN PA GAME COMMISSION
Address	2001 ELMERTON AVE HARRISBURG PA 17110
Building/Structure Name	GAME COMMISSION STATE GAME LANDS 234 - NEW STORAGE BLDG
Building Address	463 GAME FARM RD SCHWENKSVILLE 19473
Political Subdivision:	LIMERICK TOWNSHIP
County:	MONTGOMERY
Approved use and occupancy classification(s)	S1
Approved construction type	VB
Plan code	BUILDING

This permit authorizes construction of the above named building or structure in accordance with the Pennsylvania Construction Code Act, its regulations and all plans and specifications approved by the Department. A copy of this permit shall be retained at the work site until the completion of all construction.

File Number	536510
Date Issued	12/17/2019

A handwritten signature in black ink, appearing to read "Ron F. Englar".

Ron F. Englar
Building Code Official

A highway access occupancy permit is required under S420 of the State highway Law (36 P.S.S 670-420) before driveway access to a commonwealth highway is permitted.

Uniform Construction Code (UCC)

INSPECTION LOG

THIS LOG MUST BE RETAINED AT THE CONSTRUCTION OR DEMOLITION SITE UNTIL THE COMPLETION OF ALL WORK AND MUST BE MADE AVAILABLE TO ALL DEPARTMENT CODE OFFICIALS, UPON REQUEST. All Inspections preceded by a "Y" must be performed in accordance with the approved construction documents and section 403.45 of the UCC before a "Certificate of Compliance or a Certificate of Occupancy and Use" will be issued. This document's only use is to inform the permit holder of required inspections and is to enable L&I staff to record the completion of these inspections during the course of the construction process. It is not intended to document the fulfillment of all required UCC obligations or establish the right to legally occupy the building or structure named below.

Drawing Index Number: 201901408
Building/Structure Name: GAME COMMISSION
Address: 463 GAME FARM RD
SCHWENKSVILLE PA 19473

File Number: 536510

Requests for inspections must be made in conformance with the Inspection Procedures Statement and should be directed to the inspector named below.

Inspector: George Seifert (215)353-8811 gseifert@pa.gov				
If unavailable, contact Central Office: 717-787-1291 jecole@pa.gov				
REQUIRED	INSPECTION	INSPECTOR (PRINT)	INSPECTOR (SIGNATURE)	DATE ACCEPTED
Y	Footing Environment			
Y	Foundation			
	Concrete Under Slab/Floor			
	Underground Plumbing			
	Underground Mechanical			
Y	Underground Electrical			
	Plumbing Rough-in			
	Mechanical Rough-in			
Y	Electrical Rough-in			
D	Framing			
	Insulation			
	Fire Protection			
Y	Accessibility Final			
Y	Energy Final			
	Mechanical Final			
Y	Electrical Final			
	Plumbing Final			
Y	Building Final			
	Demolition Final			
	Alterations Final			
	Sign Final			
	Structure Final			